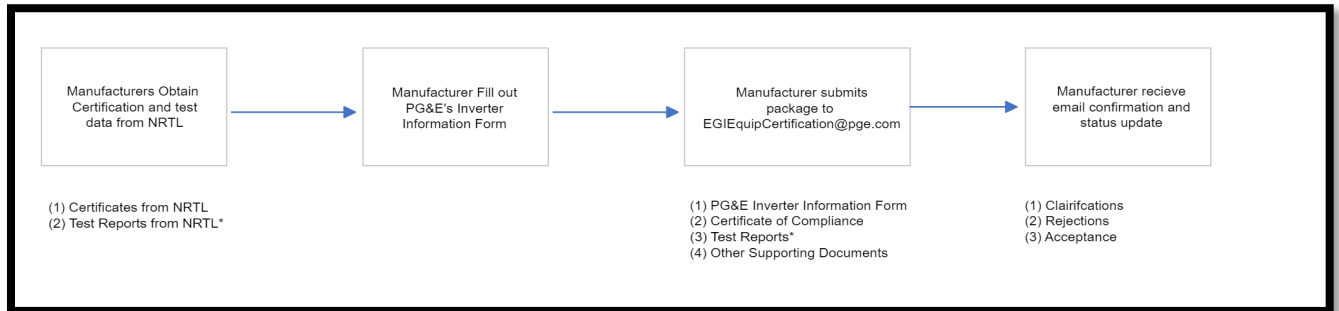


Document Requirements for Inverter Information Submission

Pacific Gas and Electric Company

Pacific Gas and Electric Company Instructions for Inverter Information Submittal



General Guidance for Inverter Information:

1. Equipment manufacturer must submit the request
2. Reports and documents must be written in English
3. Submit all the required documentation in a single email. Incomplete requests will be rejected in full and will require the manufacturer to resubmit a full set via a new single email. Rejection will cause the review to restart the review time from time a new complete package is received.
4. Request with alternative forms will be rejected
5. PG&E aims to review package in a timely manner and aims to provide approval within 30BDs from submittal of completed package. This is not a guarantee or requirement and will fluctuate depending on number of requests.

*As may be required to satisfy on UL1741 SA11.2 testing

NOTE: Data and information submitted to the PG&E are public record. Do not submit any proprietary or confidential information. Proprietary or confidential information on required documents must be redacted or omitted prior to submission.

1. Required Information Documents

The manufacturer submits the PG&E Inverter Information Form and all required certificates of compliance and reports in a single email to EGIEquipCertification@pge.com. Include in the subject of the email line the inverter model and manufacturer's name. Attach the email all the required documentation:

- a) Pacific Gas and Electric Company Inverter Information Form
- b) Nationally Recognized Testing Laboratory (NRTL) Certification to UL 1741 from an NRTL whose OSHA Scope of Recognition includes 1741¹. The UL 1741 certificate must include:
 - a. Supplement SB (Must utilize UL 1741-3rd Edition)
- c) Additional supporting documents, as required by PG&E. Note that submitted information must be public record; **do not submit any proprietary or confidential information.**

2. Minimum Criteria for Safety Certification

- a) The UL 1741 (and any pertinent Supplement SA) certification documents
 - a. Signed or stamped and dated by NRTL whose OSHA Scope of Recognition includes UL 1741
 - b. Indicates the UL 1741 standard as well as Source Requirement Documents (SRDs) for the test.
 - c. Specifies the requested model number(s) certified
 - d. Defines all the wildcards in the mode number(s)
 - e. Specifies inverter type is “Grid Support Interactive”
- b) When inverter supports battery connection on the DC and has been tested for Normal Ramp Rate per UL1741SA Section 11.2
 - a. Indicates compliance with UL1741SA Section 11.2
- c) The UL1741 (Supplement SB) Certification Document
 - a. Signed or stamped and dated by NRTL whose OSHA Scope of Recognition includes UL 1741
 - b. Indicates the UL1741 (3rd Edition) standard including Supplement SB, as well as Source Requirements Documents (SRDs) for the test
 - c. Indicates compliance with IEEE1547:2018 and IEEE1547.1:2020
 - d. Specifies the requested model number(s) certified
 - e. Defines all the wildcards in the mode number(s)
 - f. Specifies inverter type is “Grid Support Interactive”

Instructions for Completing the Inverter Listing Request Form

Download the latest version of the **PG&E Inverter Information Form**. Complete all boxes and fields or explain in the “notes” section of the form why a field is not applicable

- a) List the manufacturer’s legal name (as listed in the certification)
- b) Complete related table in the form and answer the questions about UL1741 Supplement SB and UL1741 SA 11.2 certification requirements
- c) Provide any additional information to further explain or clarify the inverter information in the “Notes” section. Accurate and detail notes will help prevent the need for clarification and ensure timely processing of the inverter information

¹ A current list of NRTLs approved by OSHA, along with their recognized scopes, can be found on the OSAH website



- d) If applicable, in the “Communications Conformance” section, enter the name of the entity that issued the certificate or compatibility report.

Instructions for Submitting Optional Additional Documentation

The manufacturer may submit extra document(s) to demonstrate additional functionality. If submitted, the information will be evaluated by PG&E. Upon approval of the inverter information, PG&E will maintain this information with the inverter model numbers.

PG&E will accept the following documents*:

- a) Test report summary for the UL 1741SA Section 11.2 - normal ramp rate test report (Optional)*
- b) Certification of the inverter to the Common Smart Inverter Profile (CSIP). Required **
- c) NRTL report for inverter compatibility with CSIP-certified gateway (Attestation per as required by Resolution E5000) **

* Optional. Information may only be required when normal ramp rate function is activated under mutual agreement

**Inverter must comply with either b) or c) to meet PG&E’s interconnection requirements

1. Minimum Criteria for **Optional additional** Document(s)

- a) Test report summary for UL1741 SA 11.2 (Optional)
 - a. A laboratory recognized by the OSHA NRTL program.
 - b. The laboratory’s OSHA Scope of Recognition included UL1741
- b) Certification of the inverter to the Common Smart Inverter Profile (CSIP) (one of the following):
Not required if information as required in 1.c) is provided
 - a. A laboratory recognized by the OSHA NRTL program.
 - b. SunSpec Alliance.
 - c. A laboratory approved by SunSpec Alliance
- c) NRTL report for inverter compatibility with CSIP-certified gateway:
Required if information as required in 1.b) is not provided
 - a. A laboratory recognized by the OSHA NRTL program.
 - b. A laboratory approved by SunSpec Alliance

Any documents(s) provide to support the indication of optional additional functionality must include the following

- a) Test report summary for the UL 1741 Supplement SA 11.2
 - a. Signed or stamped and dated by the NRTL
 - b. Indicates testing completed in accordance with UL 1741 SA 11.2

- c. Specifies model number(s) tested
 - d. Specifies the firmware version(s) tested
- b) Certification of the inverter to the CSIP
Required when box 9 in the PG&E Inverter Information Form is selected as “Yes”
 - a. Signed or stamped and dated by the certifying entity
 - b. Specifies the inverter model number(s) tested
 - c. Indicates testing met the Comm Smart Inverter Profile according to *the SunSpec Common Smart Inverter (CSIP) conformance test procedures*
- c) NRTL report for inverter compatibility with CSIP-certified gateway (Attestation Per Resolution E-5000)
Required when box 10 in the PG&E Inverter Information Form is selected as “Yes”
 - a. Signed or stamped and dated by the NRTL
 - b. Specifies the inverter(s) manufacturer name.
 - c. Specifies the inverter model number(s) tested with a CSIP-Compliant gateway
 - d. Specifies the inverter(s) were tested in accordance to CPUC Resolution E-5000 approved testing pathway (as modified by Resolution E5036)